CONTENTS SHEET NO. 2

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REFERENCE

LEGEND (SOIL & ROCK) SITE PLAN PROFILE CROSS SECTION BORE LOGS SITE PHOTO

TITLE SHEET

DESCRIPTION

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** GEOTECHNICAL ENGINEERING UNIT

STRUCTURE SUBSURFACE INVESTIGATION

COUNTY_HOKE

PROJECT DESCRIPTION REPLACE BRIDGE NO. 39 AND BRIDGE NO. 40 ON BALFOUR RD (SR 1436) OVER **BIG MARSH SWAMP**

NA PROIEC

STATE N.C

STATE PROJECT REFERENCE NO.

TOTAL SHEETS



NO.

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CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOLI TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT 1999 107-6860. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

CENERAL SOL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU UN-PLACED TEST DATA CAN BE RELIED ON ONLY TO THE DECREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOLL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOLL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE VIDUCT TACTORS. THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SALTSY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONS TO BE ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONS TO BE NOT ON FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FOM THE ACTULAL COMPENSATION, FOR AN THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTES: I. THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N.C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT. 2. BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE. 2.

Ξ &

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT SUBSURFACE INVESTIGATION

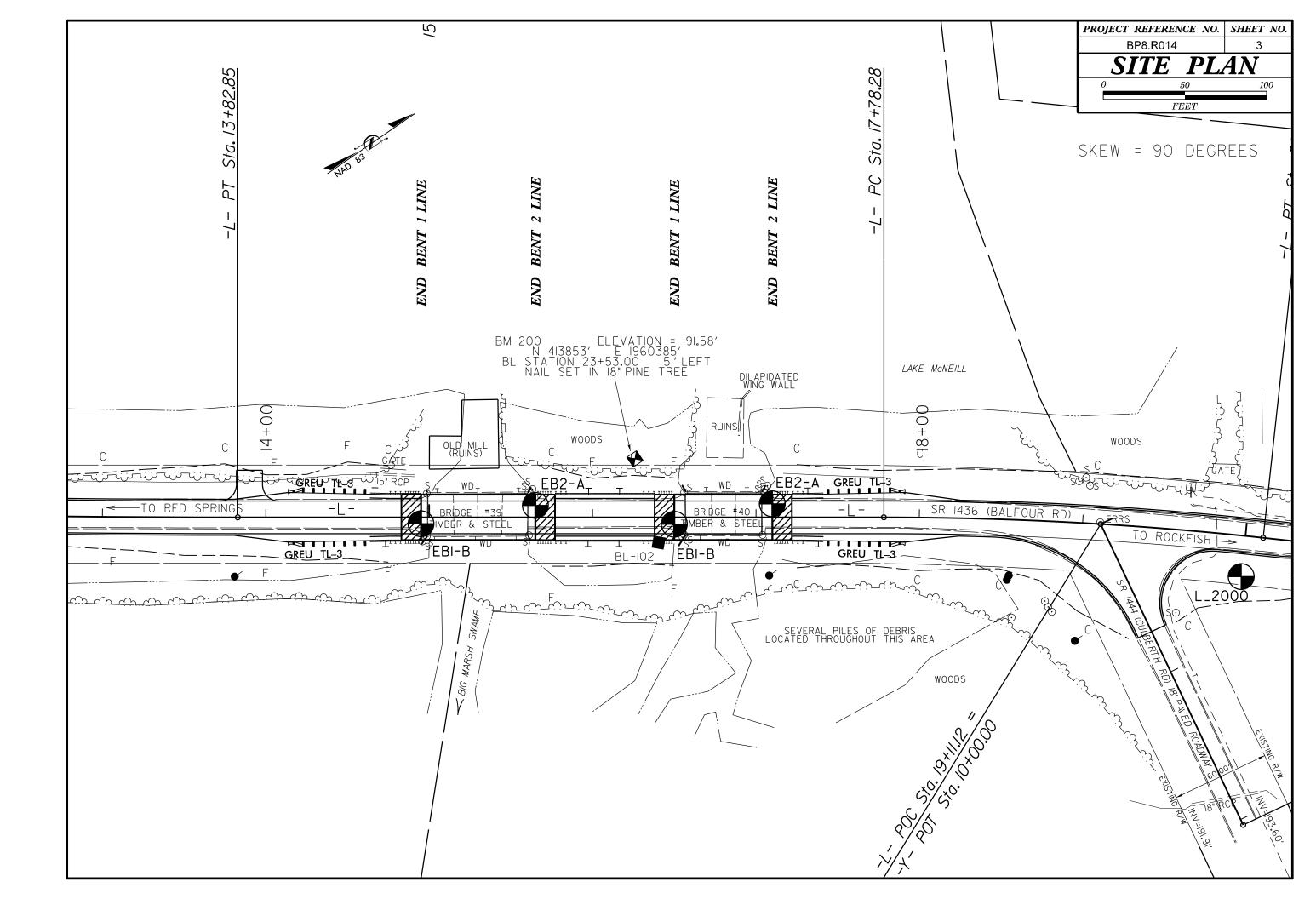
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

			SOIL D	JESCR	IPTION					T		GR	ADATION							ROCK	DESC	RIPTION	
BE PENET ACCORDIN	RATED WIT⊢ NG TO THE	A CONTINUOU STANDARD PEN	TED, SEMI-CON IS FLIGHT POW NETRATION TES STEM, BASIC (WER AUGE	ER AND YI HTO T 206	IELD LESS 5, ASTM DI	THAN 100 586). SOIL	BLOWS PE CLASSIFIC	R FOOT	WELL_GRADED - INDICAT UNIFORMLY GRADED - IN GAP-GRADED - INDICATES	NDICATES	THAT SOIL	PARTICLES ARE AL	L APPROXIMA	TELY THE SAME SIZE.	ROCK LINE IN SPT REFUSAL	DICATE IS PE	ES THE LE INETRATIO	EVEL A	I MATERIAL 1 AT WHICH NO A SPLIT SPO	THAT WOU ON-COASTA OON SAMP	ILD YIELD SPT AL PLAIN MATER LER EQUAL TO	REFUSAL IF TESTE RIAL WOULD YIELD OR LESS THAN 0.1 N SOIL AND ROCK
CONSISTE	NCY. COLOR.	TEXTURE, MOIS	TURE, AASHTO) CLASSI	FICATION.	AND OTHER	R PERTINEN	NT FACTOR				ANGULAR	ITY OF GRAI	NS		REPRESENTED ROCK MATERIA	BY A	ZONE OF	WEATH	HERED ROCK.			
HS V	ERY STIFF.G	RAY, SILTY CLAY,	OIST WITH INT	ERBEDDE	D FINE SA	ND LAYERS,	HIGHLY PLAS	TIC.A-7-6		THE ANGULARIT			SOIL GRAINS IS D	ESIGNATED B	Y THE TERMS:	WEATHERED		SICS.	ITA			MATERIAL THAT	WOULD YIELD SP1
			ND AND				CATION						CAL COMPOS			ROCK (WR)				100 BLOWS F	PER FOOT	IF TESTED.	
GENERAL CLASS.		Granular mater ≤ 35% passing ■			T-CLAY MATE 35% PASSING		ORG	ANIC MATERIA	ALS	MINERAL NAM			, FELDSPAR, MICA, 1		ETC.	CRYSTALLINE							D METAMORPHIC RO TED. ROCK TYPE IN
GROUP		A-3	A-2	-	A-5 A-1	6 A-7	A-1, A-2	A-4, A-5					THEY ARE CONSID			ROCK (CR)		<u></u>	R. O	GNEISS, GABE	BRO, SCHIS	ST.ETC.	C AND NON-COASTA
	A-1-a A-1-b	A-2-4 A-	2-5 A-2-6 A-2-	-7		A-7-5. A-7-6	A-3	A-6, A-7					RESSIBILITY			NON-CRYSTALL ROCK (NCR)	.INE		9	SEDIMENTARY	Y ROCK T	HAT WOULD YE!	ILD SPT REFUSAL
SYMBOL				3	1.7 4					MODEF	RATELY C	IPRESSIBLE COMPRESSIBL	.E	LL < 31 LL = 31 -	50	COASTAL PLAI		十二二	. (COASTAL PL	AIN SEDIM	MENTS CEMENTE	TE, SANDSTONE, ETC ED INTO ROCK, BUT
% PASSING							-	SILT-	MUCH	HIGHL	LY COMPR					SEDIMENTARY (CP)	ROCK			SPT REFUSA SHELL BEDS		TYPE INCLUDES	LIMESTONE, SANDS
*40 3	0 MX 0 MX 50 MX	51 MN					GRANULAR SOILS	CLAY SOILS	MUCK, PEAT			GRANULAR	STLT - CLAY			1				W	EATHE	RING	
	5 MX 25 MX	10 MX 35 MX 35	MX 35 MX 35 M	1X 36 MN	36 MN 36 I	MN 36 MN		50125		ORGANIC MATERIAL TRACE OF ORGANIC MA	-	<u>SOILS</u> 2 - 3%	SILT - CLAY <u>SOILS</u> 3 - 5%	OTHEF TRACE	<u>R MATERIAL</u> 1 - 10%			FRESH.CRY			/ JOINTS	MAY SHOW SLIGH	HT STAINING, ROCK
MATERIAL PASSING #40				!			SOILS	WITU		LITTLE ORGANIC MATT	TER	3 - 5%	5 - 12%	LITTLE	10 - 20%						FAINED. SO	ME JOINTS MAY	SHOW THIN CLAY C
LL PI	- 6 MX		MN 40 MX 41 M MX 11 MN 11 M				LITTLE	e or	HIGHLY	MODERATELY ORGANIC HIGHLY ORGANIC		5 - 10% > 10%	12 - 20% > 20%	SOME HIGHLY	20 - 35% 35% AND ABOVE			ALS ON A CRYSTALLI			FACE SHI	NE BRIGHTLY. RO	OCK RINGS UNDER H
GROUP INDEX	0	0 0	4 MX	_	12 MX 16 M		MODER AMOUNT		ORGANIC			GROL	JND WATER								FAINED AN	D DISCOLORATIO	N EXTENDS INTO RO
USUAL TYPES S	TONE FRAGS.	FINE SILT	Y OR CLAYEY			CLAYEY	ORGAI MATT		SOILS	∇	WATER	LEVEL IN E	BORE HOLE IMMEDI	ATELY AFTER	DRILLING	(SLI.)	1 INCH.	. OPEN JO	OINTS M	MAY CONTAIN	CLAY. IN	GRANITOID ROCK	KS SOME OCCASIONA RING UNDER HAMMER
OF MAJOR (MATERIALS	GRAVEL, AND SAND		el and sand	SOI		SOILS				▼	STATIC	C WATER LEV	VEL AFTER 24	HOURS									WEATHERING EFFECTS
GEN. RATING				+			FAIR TO	0000	UNSUITABLE		PERCH	ED WATER, SA	ATURATED ZONE, OF	R WATER BEA	RING STRATA	(MOD.)	GRANIT	TOID ROCK	KS, MOST	T FELDSPARS	ARE DULI	L AND DISCOLOR	RED, SOME SHOW CLA LOSS OF STRENGTH
AS SUBGRADE		EXCELLENT TO G			Fair to Po		POOR	POOR	UNSULTABLE		SPRINC	G OR SEEP						FRESH ROC		MMER BLUWS	AND SHU	15 SIGNIFICANT	LUSS OF STRENGTH
			ROUP IS ≤ LL				≻LL - 30				M												NITOID ROCKS, ALL F
			ISISTENC		DENSE		RANGE	E OF UNCO		<u>+</u>	<u></u>	ISCELLA	NEOUS SYMBI	ULS									CK SHOWS SEVERE LI VES "CLUNK" SOUND "
PRIMARY S	OIL TYPE	COMPACT CONSIS			RATION RE	SISTENCE	COMPR	ESSIVE S	TRENGTH	L ROADWAY EMB			DIP & DIP DIF DIP & DIP DIF OF ROCK STRUE	RECTION						LD SPT REFU			
051/504		VERY	OOSE		< 4			1010/10/11	,	┨╚╁	50.11 110		SPT		SLOPE INDICATOR	(SEV.)	REDUCE	ED IN STR	RENGTH	I TO STRONG	SOIL. IN	GRANITOID ROCKS	ABRIC CLEAR AND E
GENERAL GRANULA		LOC	ISE		4 TO 10 10 TO 3			N/A		SOIL SYMBOL		-	OPT DMT TEST BO		INSTALLATION					IE FRAGMENTS LD SPT N VA		DNG ROCK USUALI 10 BPF	LY REMAIN.
MATERIA (NON-COF		DEM	ISE		30 TO 5			N/H		ARTIFICIAL FI	(LL (AF) C		AUGER BORING		CONE PENETROMETER TEST								ABRIC ELEMENTS AR
		VERY			> 50			(0.05		INFERRED SOIL			- CORE BORING	•	SOUNDING ROD								ONLY FRAGMENTS OF TO A DEGREE THAT
GENERAL		VERY SO	FT		< 2 2 TO 4			< 0.25 0.25 TO 0		INFERRED SUIT	L BOONDF	,		.	TEST BORING								DULD YIELD SPT N V
SILT-CLA MATERIA		MEDIUM STI			4 TO 8 8 TO 15			0.5 TO 1. 1 TO 2		INFERRED ROC	K LINE	" O		ELL 🕂 🕈	WITH CORE								DISCERNIBLE ONLY DIKES OR STRINGERS
(COHESIV	(E)	VERY HA			15 TO 3 > 30	.Ø		2 TO 4 > 4		ALLUVIAL SOIL	L BOUNDA	ARY 🛆	PIEZOMETER INSTALLATION	\bigcirc	- SPT N-VALUE			AN EXAMPL					
			EXTURE	OR GI		IZE				<u> </u>	RE		DATION SYME	BOLS		1				ROC	<u>K HAR</u>	RDNESS	
U.S. STD. SIE	VE SIZE		4 10	40			270					ASSIFIED EX	XCAVATION - [ت تحي≫ UNCLAS	SIFIED EXCAVATION -					O BY KNIFE O OF THE GEOL			OF HAND SPECIMEN
OPENING (MM			4.76 2.00				0.053					JITABLE WAS LASSIFIED EX			ABLE,BUT NOT TO BE N THE TOP 3 FEET OF	HARD	CAN BE	E SCRATCH	HED BY	r KNIFE OR P			TY. HARD HAMMER BI
BOULDER			RAVEL	COARS SANI		F INE SAND		ILT	CLAY			EPTABLE DEG	GRADABLE ROCK	EMBANK	MENT OR BACKFILL			TACH HAND					TO A OF INCUSE OF
(BLDR.)	(C	0B.)	(GR.)	(CSE. S		(F SD.)		5L.)	(CL.)			ABBR	REVIATIONS										TO 0.25 INCHES DE PECIMENS CAN BE D
GRAIN MM SIZE IN.	305 12	75 3	2.0		0.25	i	0.05	0.005		AR - AUGER REFUSAL BT - BORING TERMINATED	0	MED	MEDIUM		VANE SHEAR TEST WEATHERED			DERATE BL					
312E IN.										CL CLAY		MOD	MODERATELY	γ -	UNIT WEIGHT	HARD	CAN BE	E EXCAVAT	TED IN	I SMALL CHIP			RESSURE OF KNIFE O MUM SIZE BY HARD
SOIL	MOISTURE		FIELD MO							CPT - CONE PENETRATION CSE COARSE	N TEST		ON PLASTIC ORGANIC	'∕d-	DRY UNIT WEIGHT			OF A GEO					N BE EXCAVATED IN
	ERBERG LIM		DESCRI		GUI	DE FOR F	IELD MOIS	TURE DES	CRIPTION	DMT - DILATOMETER TES DPT - DYNAMIC PENETRAI		PMT -	PRESSUREMETER T SAPROLITIC		MPLE ABBREVIATIONS		FROM	CHIPS TO	SEVER	RAL INCHES I	N SIZE BY	MODERATE BLO	DWS OF A PICK POIN
			- SATURA				UID; VERY			e - VOID RATIO	TION TES		AND, SANDY	S - E SS -	SPLIT SPOON					N BY FINGER			ITH POINT OF PICK.
LL		LIMIT .	(SAT.))	FRO	M BELOW	THE GROU	JND WATEF	R TABLE	F - FINE FOSS FOSSILIFEROUS			SILT, SILTY SLIGHTLY	ST - RS -	SHELBY TUBE ROCK	SOFT	OR MOR	RE IN THI					RE. CAN BE SCRATCH
PLASTIC RANGE <			- WET -	(W)			EQUIRES D			FRAC FRACTURED, FRAC	TURES	TCR -	TRICONE REFUSAL	RT -	RECOMPACTED TRIAXIAL			TURE S			<u> </u>		
(PI) PL		LIMIT			ATT	AIN OPTIM	NUM MOIST	TURE		FRAGS FRAGMENTS HI HIGHLY		20 - ML V - VEI	DISTURE CONTENT RY	CBK -	RATIO	TERM	RAL	JURE S		PACING	—	TERM	BEDDING
			- MOIST	- (M)	SUI		NEAR OPT		ISTURE	EQU		NT USED	ON SUBJEC	T_PROJEC	T	VERY WIDE WIDE		м	MORE T	THAN 10 FEE	т	VERY THICKL THICKLY BEE	LY BEDDED
	L OPTIMU	4 MOISTURE AGE LIMIT	10101		502	10,111 011			ISTONE	DRILL UNITS:		CING TOOLS:		HAMMER		MODERATEL	Y CLC	JSE	1 TC	O 3 FEET		THINLY BEDD	DED 0.1
			- DRY -	(0)			DITIONAL		ı	CME-45C		CLAY BITS		X AUT	OMATIC MANUAL	CLOSE VERY CLOS	Æ	LF		TO 1 FOOT HAN 0.16 FEE	εт	VERY THINLY THICKLY LAN	
			- DRT -	(0)	ATT	AIN OPTIM	NUM MOIST	TURE		CME-55			S FLIGHT AUGER	CORE SIZ	_							THINLY LAMI	
			PLf	ASTIC	ITY							B'HOLLOW AU		□-в _	Ц-н					-	NDURA		
NON	PLACTIC		PLAST		NDEX (PI)			Y STRENG		CME-550		HARD FACED F		□ -N _				UUKS, IND	JURATIC				BY CEMENTING, HE
SLIG	PLASTIC HTLY PLAS			0-5 6-15			`	SLIGHT		VANE SHEAR TEST				HAND TO	DLS:	FRIABLE	2						TEGRATES SAMPLE.
	ERATELY PI		2	16-25 26 OR MC				MEDIUM HIGH					W/ ADVANCER		T HOLE DIGGER	MODERA	TELY	INDURATE	ED				M SAMPLE WITH ST
				COLOR				-		PORTABLE HOIST			'STEEL TEETH		ID AUGER							HEN HIT WITH I	RATE WITH STEEL
DECODICT									CRAY	X <u>D-50</u>		CORE BIT	<u>70</u> 1000-CHRB.		INDING ROD IE SHEAR TEST	INDURA	IED					EAK WITH HAMM	
			R OR COLOR DARK, STREA												E GALMAN TEOT	EXTREM	IELY I	NDURATED	Ъ			LOWS REQUIRED ACROSS GRAINS.	TO BREAK SAMPLE
											_ <u> </u>										COLORD P		

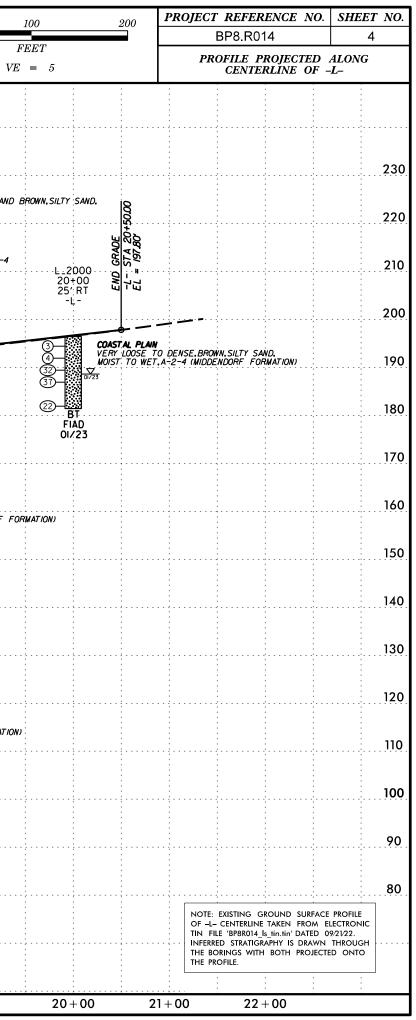
PROJECT REFERENCE NO. BP8.R014

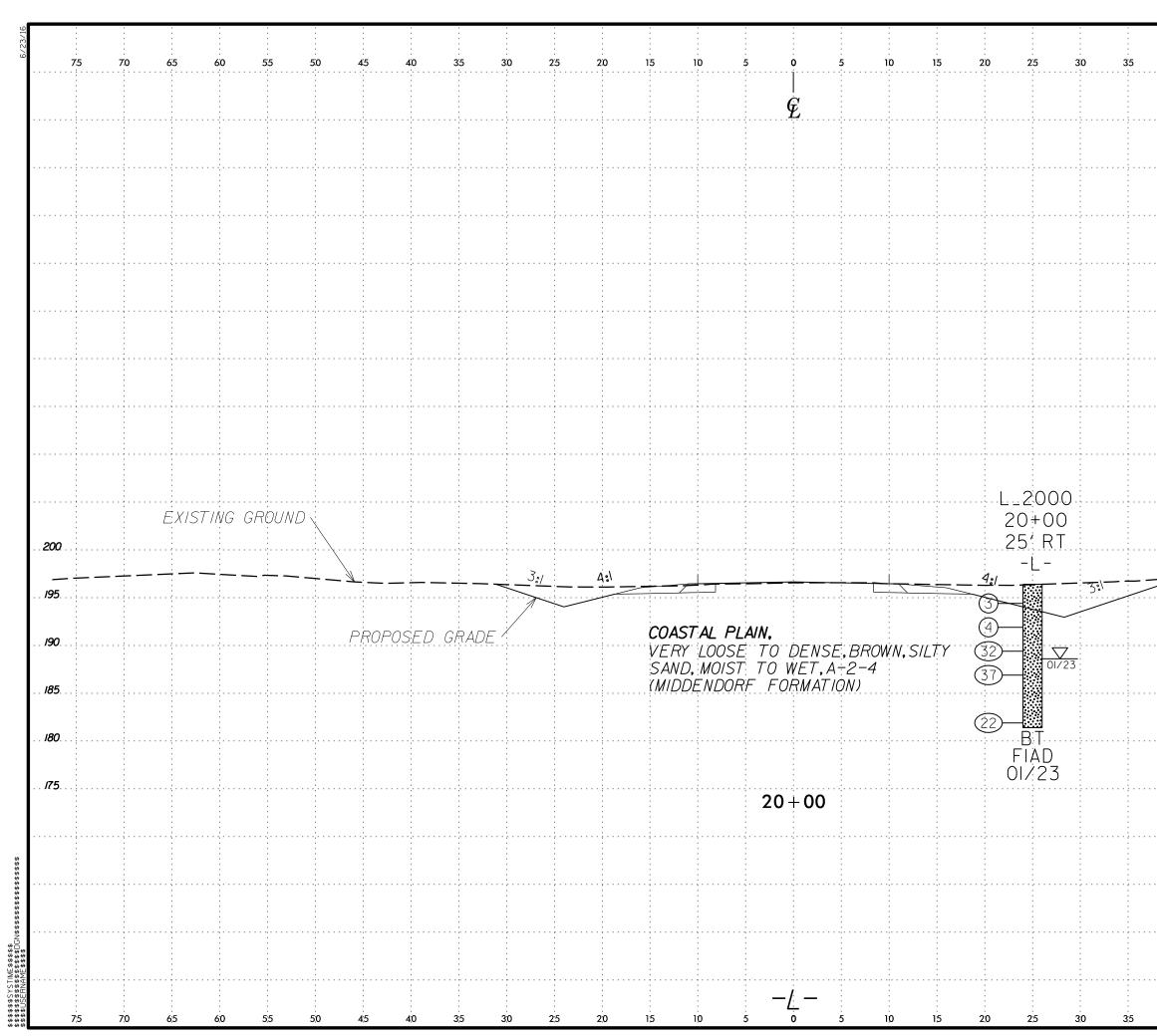
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	TERMS AND DEFINITIONS
ED. AN INFERRED) SPT REFUSAL.	ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.
1 FOOT PER 60 IS OFTEN	AQUIFER - A WATER BEARING FORMATION OR STRATA.
15 OF TEN	ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.
	ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC.
T N VALUES >	ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT
DCK THAT	WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND
NCLUDES GRANITE,	SURFACE.
AL PLAIN	CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.
IF TESTED. C.	COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.
MAY NOT YIELD	CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED
STONE, CEMENTED	BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
	DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT
RINGS UNDER	ROCKS OR CUTS MASSIVE ROCK. DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE
	HORIZONTAL.
COATINGS IF OPEN, HAMMER BLOWS IF	DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.
	FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE
DCK UP TO AL FELDSPAR	SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.
R BLOWS.	FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.
S. IN AY. ROCK HAS	FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.
H AS COMPARED	FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.
	FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE
FELDSPARS DULL LOSS OF STRENGTH	FIELD.
WHEN STRUCK.	JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.
	LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO
EVIDENT BUT ARE KAOLINIZED	ITS LATERAL EXTENT. LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.
	MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS
RE DISCERNIBLE	USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.
OF STRONG ROCK	PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE
T ONLY MINOR VALUES < 100 BPF	OF AN INTERVENING IMPERVIOUS STRATUM.
IN SMALL AND	RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.
S. SAPROLITE IS	ROCK QUALITY DESIGNATION (ROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
IS REQUIRES	SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.
BLOWS REQUIRED	<u>SILL</u> - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEODING OR SCHISTOSITY OF THE INTRUDED ROCKS.
EEP CAN BE	SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT
DETACHED	OR SLIP PLANE.
OR PICK POINT. BLOWS OF THE	STANDARD PENETRATION TEST (PENETRATION RESISTANCE)(SPT) - NUMBER OF BLOWS (N OR BPF)OF A 140 LB.HAMMER FALLING 30 INCHES REDUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.
N FRAGMENTS NT. SMALL, THIN	STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.
JUNEL, IIIIN	STRATA ROCK QUALITY DESIGNATION (SROD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL
. PIECES 1 INCH HED READILY BY	LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.
_	TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.
	BENCH MARK: BM-200 N: 413,853 E: 1,960,385
THICKNESS 4 FEET	
1.5 - 4 FEET	ELEVATION: 191.58 FEET
.16 - 1.5 FEET 03 - 0.16 FEET	NOTES:
08 - 0.03 FEET	
0.008 FEET	
EAT, PRESSURE, ETC.	
TEEL PROBE:	
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PROBE:	
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E;	DATE: 8-15-14



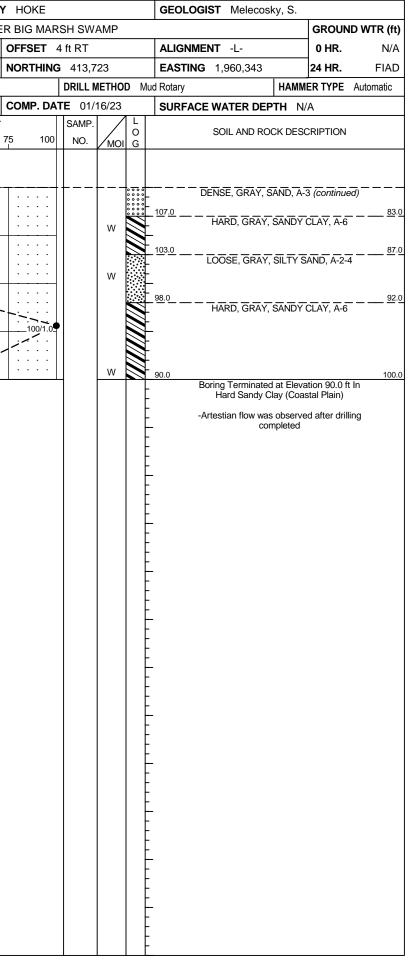
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90			INNU. ON AL, SAWUT CLAF, WE	7.4-6 47-B FI/ OI/	P	BT FIAD 01/23		· · · ·			
		1005	E.GRAY.SILTY SAND.WET.A-2 	00/1.0	9- 			25		,	
100			RD.GRAY.SANDY CLAY.WET A				FI FI	AD 23	BT FIAD DI/23		
110		COASTAL MEDIUM	. PLAIN DENSE TO VERY DENSE.GI	ау. ⁷⁸ 49-	silty 56-	00000 00000 00000 00000 00000	34 SAND AND 47	8 SAND. 72	0000	WET.A-2-4 & A-3	ICAPE FEAR FORMATIC
120		·····		22	26			8	0000 0000 0000 0000 0000 0000		
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160		COASTAL PLAIN VERY LOOSE TO VERY DE	NSE.BROWN.TAN.GRAY AND	б <u></u> кніте, ©—	 SAND.A-3. 	C	CLAYEY SAND	3− A-2-6		AND SILTY SAND A-2	-4.WET.(MIDDENDORF F
				9	Ē		6	32–	0 0		
170				6-	9		Ø ®- 25-	(9– (6)–			
180	EXISTING GROUND								9	~~ ®	
190		•	PAVENE		BRIDGE 3	9 P/	AVE WENT				-
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	GIN GRA - 574 (= 19/15		NWS, 04-28-2022 ELEV. = 185.8' (BOTH BRIDGES)	GIN BRI	- STA I	N P	EGIN BR	- STA		ALLUVIAL VERY SOFT.GRAY.S. COASTAL PLAIN	
210	0E 0+50.00			GIN BRIDGE	4+93.88	3RIDGE TA 15+66.13	GIN BRIDGE	16 + 48.88	00E	ALLIVIAL VERY LOOSE.GRAY.S	SILTY SAND.WET.A-2-4
220						7'LT -L-			5'LT C	VERY LOOSE TO ME MOIST.A-2-4 ALLUVIAL VERY SOFT.BROWN.	ENT EDIUM DENSE.GRAY AND
230				EBI-B_E 4+ 4' -L	95 RT EB2-	A_BRD 15+65	16+ 0G39 4'	BRDG40 +50 -RT EB2-7 L- I	-BRDG40	ROADWAY EMBANKM	ENT
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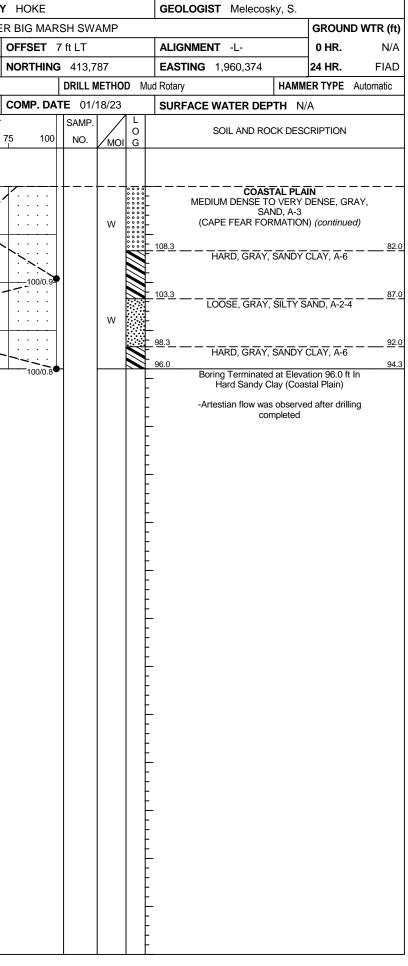


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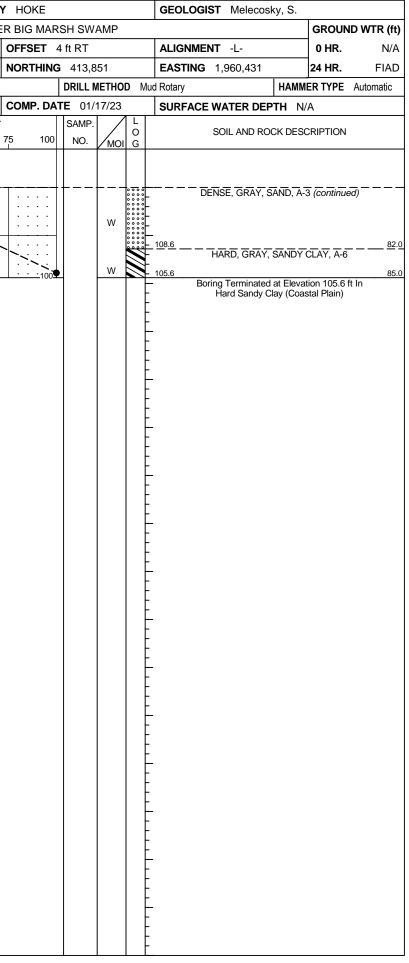
CALLER LEV. *00.0* TOTAL DEPTH 10.0.10 NORTHING 4:12.75 EASTING 1.00.241 24.48 FROM COLLER LEV. *00.0* TOTAL DEPTH 10.0.16 TOTAL DEPTH 10.0.16 <thtotal 10.0.16<="" depth="" th=""> <thtotal 10.0.16<="" depth="" th=""></thtotal></thtotal>												URE							ı ——									
DERIMENOL EDITE Control OPTION 1-0	-															GEOLOG	IST Melecosky, S.	1										-
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DBL. LBL AUMENT FY ADLE: DBL. LBL AVENUE D	BORI	NG NO.	EB1-	B_BR	DG39	S	ΓΑΤΙΟ	N 1	4+95			OFFSET	4 ft RT			ALIGNME	ENT -L-	0 HR. N/A	BOR	ING NO.	EB1	-B_BR	DG39	ST	ATION	14+95		C
DelLLEP TIME TANE OVERAGE Diverse Superace waters permit NA DelLLEP DelLEP DelLEP DelLL	COLL	AR ELE	V. 19	0.0 ft		т	OTAL	DEPI	TH 1	00.0	ft	NORTHIN	G 413,	723		EASTING	1,960,343	24 HR. FIAD	COL	LAR ELI	EV. 19	90.0 ft		тс	TAL DE	PTH 100	0.0 ft	N
No. No. <td>DRILL</td> <td>. RIG/HAN</td> <td>MMER EI</td> <td>FF./DA</td> <td>TE SN</td> <td>ЛЕ275</td> <td>DIEDRI</td> <td>ICH D-</td> <td>50 85</td> <td>% 11/</td> <td>09/2021</td> <td></td> <td>DRILL</td> <td>METH</td> <td>OD N</td> <td>ud Rotary</td> <td>НАММ</td> <td>ER TYPE Automatic</td> <td>DRILI</td> <td>RIG/HA</td> <td>MMER E</td> <td>EFF./DA</td> <td>TE SM</td> <td>ME275 C</td> <td>DIEDRICH</td> <td>D-50 85%</td> <td>11/09/20</td> <td>21</td>	DRILL	. RIG/HAN	MMER EI	FF./DA	TE SN	ЛЕ275	DIEDRI	ICH D-	50 85	% 11/	09/2021		DRILL	METH	OD N	ud Rotary	НАММ	ER TYPE Automatic	DRILI	RIG/HA	MMER E	EFF./DA	TE SM	ME275 C	DIEDRICH	D-50 85%	11/09/20	21
Image: Processes of the second sec	DRIL	LER W	/illiams,	, T.		S	TART	DATE	E 01.	/16/2	3	COMP. D	ATE 01.	/16/23	3	SURFAC		Ά	DRIL	LER W	/illiams	s, T.		ST	ART DA	TE 01/1/	6/23	С
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SITE	DESCR		BRI	DGE	NOS. :	39 & 40 OI	N SR 1436	6 (-L-) OVI	ER BIG MAI	RSH SW	AMP				GROUND V	VTR (ft)	SITE	DESCR	IPTION	BRI	DGE N	10S. 3	9 & 40 O	N SR 14	l36 (-L-)	OVER
BORI	NG NO.	. EB2-	A_BR	DG39	S	TATION 1	15+65		OFFSET	7 ft LT			ALIGNME	INT -L-	0 HR.	N/A	BOR	NG NO.	. EB2-	A_BRI	DG39	ST	ATION	15+65		0
COLL	AR ELE	EV. 19	0.3 ft		Т	OTAL DEP	TH 94.3	ft	NORTHIN	G 413,7	787		EASTING	1,960,374	24 HR.	FIAD	COLI	AR ELI	EV. 19	90.3 ft		тс	TAL DEF	PTH 94	.3 ft	N
DRILL	RIG/HAI	MMER E	FF./DA	TE SM	ME275	DIEDRICH D	D-50 85% 1 ⁻	1/09/2021		DRILL M	NETHO	D Mud	Rotary	HAMM	ER TYPE Aut	tomatic	DRILL	RIG/HA	MMER E	FF./DA1	E SN	/E275 [DIEDRICH	D-50 85%	11/09/20	21
DRIL	LER W	Villiams	, T.		S	TART DAT	E 01/18/2	23	COMP. DA	TE 01/	18/23		SURFAC		Ά		DRIL	LER W	/illiams	, T.		ST		TE 01/1	8/23	C
ELEV	DRIVE	DEPTH	BLC	w co	UNT		BLOWS	PER FOOT	T	SAMP.	▼/						ELEV	DRIVE	DEPTH	BLO	w cou	JNT		BLO\	NS PER F	TOOT
(ft)	ELEV (ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25	50	75 100	NO.	мо	O G I	ELEV. (ft)	SOIL AND ROCK DESC		DEPTH (ft)	(ft)	ELEV (ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25	50	75
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	- 181.8 -	8.5				$\left \begin{array}{cccc} \bullet 0. & . & . \\ \bullet & . & . & . \end{array} \right $					W			VERY SOFT, BROWN	I, MUCK			101.8 -	88.5					· · · ·	;-;-;-; ;-;-;-;	· · · ·
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SITE	DESCR	RIPTION	BR	IDGE					(-L-) OVE	ER BIG MA						GROUND	WTR (ft)							89 & 40 ON	N SR 143	6 (-L-) O\	/ER
BOR	NG NO	. EB1-	B_BR	DG40	s	TATION	16+	50		OFFSET	4 ft RT			ALIGN	MENT -L-	0 HR.	N/A	BOR	ing no.	EB1-	B_BRI	DG40	ST	TATION 1	16+50		0
COLL	AR EL	EV. 19	90.6 ft		т	OTAL DE	PTH	85.0 ft		NORTHIN	IG 413	,851		EASTI	NG 1,960,431	24 HR.	FIAD	COL	LAR ELE	V. 19	0.6 ft		ТС	DTAL DEP	TH 85.0	ft	N
DRILL	. RIG/HA	MMER E	FF./DA	TE S	ME275	DIEDRICH	I D-50	85% 11/	09/2021		DRILL	METHO	OD N	lud Rotary	HAMN	IER TYPE A	utomatic	DRILL	RIG/HAN	IMER E	FF./DA1	TE SN	ME275 [DIEDRICH D	0-50 85% 1	11/09/2021	
DRIL	LER V				S	TART DA	TE	01/17/23	3	COMP. D	ATE 01	/17/23	3	SURFA	CE WATER DEPTH N	/A		DRIL	LER W	illiams	, T.		ST	ART DAT	E 01/17/	/23	C
ELEV	DRIVE ELEV	DEPTH		ow co					PER FOOT		SAMF	P. ▼ ∕			SOIL AND ROCK DES	CRIPTION		ELEV	DRIVE ELEV	DEPTH	<u> </u>	w cou				S PER FOO	
(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25	5	60 	75 10	0 NO.	/мс) G	ELEV. (ft)			DEPTH (ft)	(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25	50	75
195		ł												_				115					+	-	Mat	tch Line	
		ŧ												-					112.1	78.5					1:::		:
190		<u>‡</u>												- 190.6	GROUND SURF.		0.0	110		- 70.5	26	24	23			•47 · · ·	:
	189.6 -	+ 1.0 +	6	7	6		3					м		- 189.6	ROADWAY EMBAN (PAVEMENT		1.0	110		-							1
	187.1	3.5	5	2	1			· · · · ·							VERY LOOSE TO MEDI BROWN, SILTY SAN		_		107.1	83.5	33	47	53				:
185	184.6-	+ - 6.0				• • • •	•	· · · ·	· · · ·			M		185.1			<u>5.5</u>			-				<u> </u>			·
	182.1	t	1	0	0	● 0 [:] : :		· · · · · · · ·				W		- <u>182.1</u>	VERY SOFT, BROW		8 5			-							
180	182.1	+ 0.5	WOH	WOH	WOH	$ \bullet_0 \cdot \cdot \cdot \cdot$		 	· · · · · · · ·			w		<u></u>	VERY LOOSE, GRAY, SILT	Y SAND, A-2	-48.5			-							
100	-	ŧ					-										12.0		-	-							
	177.1	13.5	4	8	11	$\left \left \begin{array}{c} \cdot & \cdot \\ \cdot & \cdot \end{array} \right \right $		· · · · ·					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	MEDIUM DENSE, GRAY					-							
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	470.4	±					N.	· · · ·	 				0 0 0 0 0 0 0 0 0 0 0 0	-						-							
470	172.1	18.5	7	8	17		.) . • • 2!	 5	 			w	0 0 0 0 0 0 0 0 0 0 0 0	-					-	-							
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		ŧ.				: <i> </i> :	:	 	 				0000	- <u>163.6</u>	VERY LOOSE TO LOOSE,	GRAY, SILT	<u>Y</u> <u>27</u> .0			-							
	162.1	28.5	1	2	1	\bullet_3 · ·		 	 			w		-	SAND, A-2-4					-							
160	-	ŧ				$\left \begin{array}{c} 1\\ 1\\ 1\\ 1\end{array}\right $					-1									-							
	157.1	33.5							 					- - 156.6			34.0			-							
155		ŧ	4	6	4	• •10	•					W	0000	-	MEDIUM DENSE, GRAY	', SAND, A-3				-							
		ŧ				\. \			 				0000	-						-							
	152.1	38.5	6	8	9				 			w	0000	<u> </u>	MEDIUM DENSE. GRAY.		<u> 39.0</u>			-							
150	-	‡				;			<u></u>	+	-1			<u></u>	A-2-4					-							
	147.1	43.5		_		<i> </i> . <i> </i> .	· ·							_						-							
145	_	ŧ	3	5	′	· •1:	2.			· · · ·		W		L						-							
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140	-	ŧ				Ī I.			<u></u>	+				<u> </u>						-							
	137.1	53.5				: : !				· · · ·				- - 136.6			54.0			-							
135	_	ŧ	′	6	9		15			· · · ·		W	0000		MEDIUM DENSE, GRAY	, SAND, A-3				-							
		ŧ					. .						0000	-						-							
	132.1	58.5	5	7	11		18					w	00000	_						-							
130	-	ŧ											0000	 - 128.6			62.0			-							
	127.1	 		<u>.</u> _											HARD, GRAY, SANDY	SILT, A-4	<u>02.0</u>]	-							
125		ŧ	12	17	27		· [· · · ·		W		_						-							
		Ŧ												<u>123.6</u>		<u></u>	<u> </u>			-							
	122.1	T 68.5 T	7	8	11		10					w			MEDIUM DENSE, GRAY,					-							
120	-	£								+					A-2-4 CAPE FEAR FORM	IATION)	72.0		-	-							
	117.1	73.5					\cdot	 					0 0 0 0 0 0 0 0 0 0 0 0		DENSE, GRAY, SA	ND, A-3	12.0			-							
115		Ŧ	12	18	16			Q 34				W	0 0 0 0 0 0 0 0 0 0 0 0	-					1	-							
115		1	I	I	I			.	I				0000					L									-



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	BP8.F					TIP N/A			Y HOKE				GEOLO	GIST Melecosky, S.	1		BP8.F					P N/A		UNTY
SITE	DESCR	RIPTION	BR	IDGE	NOS.	39 & 40 OI	N SR 1436	(-L-) OVE	1		AMP				GROUND WTR (ft)	SITE	DESCR	IPTION	BRI	DGE N	IOS. 3	9 & 40 ON S	SR 1436 (-L-)	OVER
BOR	ING NO.	. EB2	-A_BF	RDG40		STATION	17+10		OFFSET	8 ft LT			ALIGN	IENT -L-	0 HR. N/A	BOR	ING NO	. EB2-	A_BRI	DG40	ST	TATION 17-	⊦10 	0
COLI	LAR ELE	EV. 19	91.0 ft		ר	TOTAL DEP	TH 80.0 f	t	NORTHIN	G 413,9	07		EASTIN	G 1,960,455	24 HR. FIAD	COL	LAR EL	EV. 19	91.0 ft		ТО	DTAL DEPTH	l 80.0 ft	N
DRILL	RIG/HAI	MMER E	EFF./D/	ATE S	ME275	DIEDRICH	0-50 85% 11	/09/2021		DRILL N	NETHOD	D Muc	Rotary	HAMN	IER TYPE Automatic					TE SM	IE275 C	DIEDRICH D-50	0 85% 11/09/20	
DRIL	LER W		в, Т.		S	START DAT	E 01/18/2	23	COMP. DA	ATE 01/	18/23		SURFA	CE WATER DEPTH N	I/A	DRIL	LER V	Villiams	, Т.		ST	ART DATE	01/18/23	C
ELEV	DRIVE ELEV	IDEFIN	' 	ow co	-			PER FOOT		SAMP.				SOIL AND ROCK DES	CRIPTION	ELEV	DRIVE ELEV	DEPTH	-	W COU			BLOWS PER F	
(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	25	50	75 100	NO.	МОІ	G	ELEV. (ft)		DEPTH (ft	(ft)	(ft)	(ft)	0.5ft	0.5ft	0.5ft	0 25	5 50	75
195		+										F				115					+		Match Lin	e
	-	ŧ										Ę					112.5	+ - 78.5						
190	- 190.0	1.0		_		<u> </u>							191.0 190.0	GROUND SURF. ROADWAY EMBAN				†	19	28	44			72
100		+ 1.0	3	4	5	· • 9 · ·				11	м			(PAVEMENT	_)	1	-	ŧ						
	187.5 -	+ 3.5 +	7	4	4						м			LOOSE, BROWN, SILTY	SAND, A-2-4			‡						
185	185.0	6.0	1	0		┥┟╌┓						we -	<u>185.5</u>		5.5	1	-	‡						
	- 182.5 ⁻	- 8.5			'						W		<u>184.0</u> 7_	BROWN, VERY SOF VERY SOFT, GRAY, SAN	-1, MUCK 1			ŧ						
180	-	ţ	WOF	I WOF	I WOF	¶∳₀::::			· · · · ·		W	s t						‡						
180	-	ŧ								11			179.0		<u>12.0</u>		-	ŧ						
	177.5 -	13.5	13	10	9	- ::: ¦			· · · · ·		W			MEDIUM DENSE, GRAY	/, SAND, A-3			+						
175	-	‡				· · · · /	19						474.0	(MIDDENDORF FOR	,			‡						
	- 172.5 -	+ 18.5									1		<u>174.0</u>	LOOSE, GRAY, CLAYEY				ŧ						
170		‡	4	3	3	│ € € : :			· · · · ·		w		172.0	LOOSE, GRAY, SILTY S	19.0 SAND, A-2-4			ŧ						
170	-	ŧ					<u> </u>	+	· · · · ·				169.0		22.0		-	ŧ						
	167.5	23.5	9	15	17						W			DENSE, GRAY, SA	ND, A-3			ŧ						
165	-	t					3 ³²											ŧ.						
	- 162.5	- 29.5					, 						164.0	VERY LOOSE, GRAY, CL	_AYEY SAND, 27.0			ŧ						
	- 102.5	1 20.0	1	1	2						w			A-2-6				ŧ						
160	-	ŧ					+ · · · ·	· · · ·	· · · · ·				159.0		32.0		-	ŧ						
	157.5	33.5	3	3	4	- <u>\</u> :::					w			LOOSE, GRAY, SILTY S	SAND, A-2-4			ŧ						
155	-	ŧ										L						<u>+</u>						
	- 152.5 ⁻	- 29.5										0000	154.0	MEDIUM DENSE, GRAY	7, <u>SAND, A-3</u> <u>37.0</u>			ŧ						
		1 30.5	5	7	9	- : : •	3				w							ŧ						
150	-	ŧ					· · · · ·	<u> </u>									-	÷						
	147.5	43.5	3	3	3	- :/:::					۱ _۱ ,		<u>148.0</u> 146.5	LOOSE, GRAY, SILTY S	SAND, A-2-4 43.0	1		ŧ						
145	-	ŧ				9 6	· · · ·	· · · ·			W			LOOSE, GRAY, CLAYEY	' SAND, A-2-6	1	_	ŧ						
	- 142.5	- - 48.5				\ \							144.0	MEDIUM DENSE, GRAY,	SILTY SAND, 47.0	1		ŧ						
		+ -0.0	6	8	9	│ : : ∖ !	7				w			A-2-4				ŧ						
140		ŧ						+	<u> </u>				139.0		52.0		-	ŧ						
	137.5	53.5	6	10	18		λ						N	IEDIUM DENSE TO VERY SAND, A-3				ŧ						
135	-	t	ľ				• <u>28</u>				W							ŧ						
135	- 132.5	- 58.5																ŧ						
	-132.5	- 30.5	19	22	35			57			W	0 0 0 0 0 0 0 0 0 0 0 0						t						
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	122.5 -	+ 68.5 	6	12	16	::::	 ● 28				w		N	EDIUM DENSE TO VERY SAND, A-3	DENSE, GRAY,			Ŧ						
120	-	Ŧ					/	· · · ·						(CAPE FEAR FORM			-	Ŧ						
	- 117.5	- 73.5	_		40	_ :::: <i>!</i>												Ŧ						
115	-	Ŧ	'	8	10		8				W							Ŧ						
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' HOKE				GEOLOGIST Melecosky,	S.		
R BIG MARS	SH SW/	AMP				GROUN	D WTR (ft)
OFFSET 8				ALIGNMENT -L-		0 HR.	N/A
NORTHING		07		EASTING 1,960,455		24 HR.	FIAD
	DRILL N		D Mu	1		R TYPE	
COMP. DAT				SURFACE WATER DEPTH			
	SAMP.	<u> </u>	L	•			
75 100	NO.	моі	O G	SOIL AND ROCK	DESC	RIPTION	
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72		W	0000	Boring Terminated at I	Elevati	on 111.0 f	80.0 t In
			F	Very Dense Silty Sa	nd (Co	astal Plair	1)
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COLLAR ELEV. 196.4 ft TOTAL DEPTH 15.0 ft NORTHING 414,119 EASTING 1,960,654 24 HR. F// DRILL RIG/HAMMER EFF./DATE SME275 DIEDRICH D-50 85% 11/09/2021 DRILL METHOD H.S. Augers HAMMER TYPE Automati DRILLER Williams, T. START DATE 01/19/23 COMP. DATE 01/19/23 SURFACE WATER DEPTH N/A 1EEV DEPTH BLOW COUNT BLOWS PER FOOT SAMP. NO. MOI G ELEV. (ft) SOIL AND ROCK DESCRIPTION DEPTH 200										B	ORE	: L	UG							
BORING NO. L_2000 STATION 20+00 OFFSET 25 ft RT ALIGNMENT -L- 0 HR. 77 COLLAR ELEV. 196.4 ft TOTAL DEPTH 15.0 ft NORTHING 414,119 EASTING 1,960,654 24 HR. FI/J DRILL RIG/HAMMER EFF /DATE SME275 DIEDRICH D-50 85% 11/09/2021 DRILL METHOD H.S. Augers HAMMER TYPE Automati DRILLER Williams, T. START DATE 01/19/23 COMP. DATE 01/19/23 SURFACE WATER DEPTH N/A IEV PRIVE DEPTH BLOW COUNT BLOWS PER FOOT SAMP. NO. MOI G ELEV. (ft) SOIL AND ROCK DESCRIPTION DEPTH 195 195.4 1.0 - <th>WBS</th> <th>BP8.F</th> <th>R014</th> <th></th> <th></th> <th>Т</th> <th>IP N/A</th> <th></th> <th>C</th> <th>OUNTY</th> <th>HOK</th> <th>E</th> <th></th> <th></th> <th></th> <th>GEOLOGI</th> <th>ST Melecos</th> <th>ky, S.</th> <th></th> <th></th>	WBS	BP8.F	R014			Т	IP N/A		C	OUNTY	HOK	E				GEOLOGI	ST Melecos	ky, S.		
COLLAR ELEV. 196.4 ft TOTAL DEPTH 15.0 ft NORTHING 414,119 EASTING 1,960,654 24 HR. F// DRILL RIG/HAMMER EFF./DATE SME275 DIEDRICH D-50 85% 11/09/2021 DRILL METHOD H.S. Augers HAMMER TYPE Automatic DRILLER Williams, T. START DATE 01/19/23 COMP. DATE 01/19/23 SURFACE WATER DEPTH N/A ILEV DRIVE DEPTH BLOW COUNT BLOWS PER FOOT SAMP. NO. MOI G ELEV. (ft) SOIL AND ROCK DESCRIPTION DEPTH 195 195.4 1.0 2 1 2 1 1 1 1 1 0 2 5 0 75 100 MOI G ELEV. (ft) SOIL AND ROCK DESCRIPTION DEPTH 196.4 GROUND SURFACE 1	SITE	DESCR		BRI	DGE I	NOS.	39 & 40 O	N SR 14	36 (-L) OVE	R BIG N	/ARS	SH SW	AMP					GROUN	ID WTR (f
DRILL RIG/HAMMER EFF./DATE SME275 DIEDRICH D-50 85% 11/09/2021 DRILL METHOD H.S. Augers HAMMER TYPE Automating DRILLER Williams, T. START DATE 01/19/23 COMP. DATE 01/19/23 SURFACE WATER DEPTH N/A JELV DRIVE DEPTH BLOW COUNT BLOW SPER FOOT SAMP. V C SOIL AND ROCK DESCRIPTION 12EV DRIVE DEPTH BLOW COUNT BLOW SPER FOOT NO. MOI G ELEV. (ft) SOIL AND ROCK DESCRIPTION 200	BORI	NG NO.	. L_20	000		s	TATION	20+00			OFFSE	T 2	5 ft RT			ALIGNME	NT -L-		0 HR.	7.
DRILLER Williams, T. START DATE 0/1/19/23 COMP. DATE 0/1/19/23 SURFACE WATER DEPTH N/A LEV DEPTH (ft) BLOW COUNT (ft) BLOW COUNT 0.5ft 0 25 50 75 100 NO. MOI G SURFACE WATER DEPTH N/A 200 0 10 0 25 50 75 100 NO. MOI G ELEV. (ft) SOIL AND ROCK DESCRIPTION ELEV. (ft) DEPTH BLOW SPER FOOT NO. MOI G ELEV. (ft) SOIL AND ROCK DESCRIPTION ELEV. (ft) DEPTH BLOW SPER FOOT NO. MOI G ELEV. (ft) SOIL AND ROCK DESCRIPTION ELEV. (ft) DEPTH DEPTH GROUND SURFACE COASTAL PLAIN COASTAL PLAIN COASTAL PLAIN VERY LOOSE TO DENSE, BROWN, SILTY SAND, A-2-4 SAND, A-2-4 M M W/V/V W/V W/V M W/V SAND, A-2-4 (MIDDENDORF FORMATION) SAND, A-2-4	OLL	AR ELE	EV. 19	96.4 ft		т	OTAL DEF	TH 15	.0 ft		NORTH	IING	414,1	19		EASTING	1,960,654		24 HR.	FIA
DRIVE (ft) DEPTH (ft) BLOW COUNT BLOWS PER FOOT SAMP. NO. MOI G SOIL AND ROCK DESCRIPTION ELEV. (ft) 200 0 0.5ft 0.5ft 0.5ft 0.5ft 0 25 50 75 100 NO. MOI G ELEV. (ft) SOIL AND ROCK DESCRIPTION 200 - <	ORILL	RIG/HAI	MMER E	FF./DA	TE SI	ME275	DIEDRICH	-50 85%	11/09/2	2021			DRILL N	IETHO	DH.	S. Augers		HAMM	ER TYPE	Automatic
LEV (ft) DEPTH (ft) BLOW COUNT (ft) BLOW SPER FOOT 0.5ft SAMP. 0 SAMP. NO. SOIL AND ROCK DESCRIPTION 6 SOIL AND ROCK DESCRIPTION ELEV. (ft) 200	DRILL	ER W	Villiams	, T.		s	TART DAT	E 01/1	9/23		COMP.	DAT	E 01/	19/23		SURFACE	WATER DEF	· •TH N/	/A	
(III) (III) (III) (III) 0.5ft 0.5ft 0 25 50 75 100 NO. MOI G ELEV. (ft) DEPTI 200			1		ow co									▼/		1				
195 195.4 1.0	(ft)	ELEV (ft)			0.5ft	0.5ft	0	25	50		75 ⁻	100	NO.	мо		ELEV. (ft)	SOIL AND RC	CK DES	CRIPTION	DEPTH
195 195.4 1.0																				
195 195.4 1.0 COASTAL PLAIN 192.9 3.5 3 2 1 2 1 2 1 2 1 2 1 2 1 3	200																			
195 195.4 1.0 COASTAL PLAIN 192.9 3.5 3 2 1 2 1 2 1 2 1 2 1 2 1 3		-	Ŧ												F	•				
130 2 1 1		-	<u> </u>								1					· 196.4				
192.9 3.5	195 -	195.4	T 1.0	2	1	2								м		- VER	Y LOOSE TO I	DENSE, E	BROWN, S	ILTY
190 190.4 6.0 4 10 22 187.9 8.5 50 21 16 182.9 13.5 5 12 10 182.9 13.5 5 12 10	-	192.9	3.5	3	2	2														
187.9 8.5	90	- 190.4	6.0				⁴			· · · · · ·		•				•				
185 50 21 16 182.9 13.5 182.9 13.5 182.9 13.5 W		-	85	4	10	22		32						TW7		-				
85 - </td <td>ľ</td> <td>- 51.5</td> <td>- 0.0</td> <td>50</td> <td>21</td> <td>16</td> <td>1 ::::</td> <td></td> <td> . 37 · .</td> <td>· · · · · ·</td> <td></td> <td></td> <td></td> <td>w</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	ľ	- 51.5	- 0.0	50	21	16	1 ::::		. 37 · .	· · · · · ·				w						
182.9 13.5 W	85	-	ŧ					- / ·		•••						_				
Elevation 181.4 ft In	╞	182.9	13.5	5	12	10				· · · ·		.		1.1/		•				
Dense Sity Sard (Coastal Plain) Dense Sity Sard (Coastal	F	-	<u> </u>	Ů	12	10		22 • • •	.	• • •	•••	•	-	vv			ring Terminated	l at Eleva	tion 181.4 f	1t ft In
		-	ŧ													-	Dense Silty S	and (Coa	stal Plain)	
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SITE PHOTOGRAPHS

Bridge Nos. 39 & 40 on –L– (SR 1436) over Big Marsh Swamp





SHEET 11 BP8.R014 Hoke County